

RAW SEQUENCE LISTING  
PATENT APPLICATION US/08/971,172DATE: 06/26/98  
TIME: 13:36:11

INPUT SET: S27002.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages.

## SEQUENCE LISTING

ENTERED

1  
2  
3 (1) General Information:  
4 (i) APPLICANT: Goodman, Corey S.  
5 Kidd, Thomas  
6 Mitchell, Kevin  
7 Tear, Guy  
8 (ii) TITLE OF INVENTION: Robo: A Novel Family of Polypeptide and  
9 Nucleic Acids  
10 (iii) NUMBER OF SEQUENCES: 12  
11 (iv) CORRESPONDENCE ADDRESS:  
12 (A) ADDRESSEE: SCIENCE & TECHNOLOGY LAW GROUP  
13 (B) STREET: 75 DENISE DRIVE  
14 (C) CITY: HILLSBOROUGH  
15 (D) STATE: CALIFORNIA  
16 (E) COUNTRY: USA  
17 (F) ZIP: 94010  
18 (v) COMPUTER READABLE FORM:  
19 (A) MEDIUM TYPE: Floppy disk  
20 (B) COMPUTER: IBM PC compatible  
21 (C) OPERATING SYSTEM: PC-DOS/MS-DOS  
22 (D) SOFTWARE: PatentIn Release #1.0, Version #1.30  
23 (vi) CURRENT APPLICATION DATA:  
24 (A) APPLICATION NUMBER:  
25 (B) FILING DATE:  
26 (C) CLASSIFICATION:  
27 (viii) ATTORNEY/AGENT INFORMATION:  
28 (A) NAME: OSMAN, RICHARD A  
29 (B) REGISTRATION NUMBER: 36,627  
30 (C) REFERENCE/DOCKET NUMBER: B98-006  
31 (ix) TELECOMMUNICATION INFORMATION:  
32 (A) TELEPHONE: (650) 343-4341  
33 (B) TELEFAX: (650) 343-4342  
34  
35 (2) INFORMATION FOR SEQ ID NO:1:  
36 (i) SEQUENCE CHARACTERISTICS:  
37 (A) LENGTH: 4188 base pairs  
38 (B) TYPE: nucleic acid  
39 (C) STRANDEDNESS: double  
40 (D) TOPOLOGY: linear  
41 (ii) MOLECULE TYPE: cDNA  
42 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:  
43 ATGCATCCCA TGCATCCCGA AAACCACGCC ATCGCCCGGA GCACGAGCAC CACTAATAAC 60  
44 CCATCTCGCA GTCGGAGCAG CAGGATGTGG CTCTGCCCCG CCTGGCTGCT CCTCGTCCTG 120  
45 GTGGCCAGCA ATGGCCTGCC AGCAGTCAGA GGCCAGTACC AATCGCCACG TATCATCGAG 180  
46 CATCCACGG ATCTGGTCGT TAAGAAGAAT GAACCCGCCA CGCTCAACTG CAAAGTGGAG 240

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48	AAGAAATCGC	ACCGCGTCCA	GTTCAAGGAC	GGCGCCCTCT	TCTTTTACAG	GACAAATGCAA	360
49	GGCAAGAAGG	AGCAGGACGG	CGGAGAGTAC	TGGTGCGTGG	CCAAGAACCG	AGTGGGCCAG	420
50	GCCGTTAGTC	GCCATGCCCTC	CCTCCAGATA	GCTGTTTTTG	GCGACGATTT	TCGCGTGGAG	480
51	CCCAAAGACA	CGCGAGTGGC	CAAAGGCGAG	ACGGCTCTGC	TGGAGTGTGG	GCCGCCCAAA	540
52	GGCATTCCAG	AGCCAACGCT	GATTTGGATA	AAGGACGGCG	TTCCCTTGGA	CGACCTGAAA	600
53	GCCATGTCGT	TTGGCGCCAG	CTCCCGCGTT	CGAATTGTGG	ACGGTGGCAA	CCTGCTGATC	660
54	AGCAATGTGG	AGCCCATTTGA	TGAGGGCAAC	TACAAGTGCA	TTGCCCAGAA	TCTGGTAGGC	720
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56	CCCAAGGATC	AGGTGATGCT	CTACGGCCAG	ACAGCCACTT	TCCACTGCTC	AGTGGGCGGT	840
57	GATCCGCCGC	CGAAAGTGTT	GTGGAAAAAG	GAGGAGGGCA	ATATTCCGGT	GTCCAGAGCG	900
58	CGAATCCTTC	ACGACGAGAA	AAGTTTAGAG	ATATCCAACA	TAACGCCAC	CGATGAGGGC	960
59	ACCTATGTCT	GCGAGGCACA	CAACAAATGTC	GGTCAGATCA	GCGCTAGGGC	TTCTCTTATA	1020
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61	GTTGTCCAAC	TACCTTGCAAT	GGCCTCCGGA	AACCCCTCCG	CGTCTGTATT	CTGGACCAAG	1140
62	GAAGGAGTAT	CCACTCTTAT	GTTCCCAAAT	AGTTCGCACG	GAAGGCAGTA	TGTGGCTGCC	1200
63	GATGGAATC	TGCAGATTAC	GGATGTGCGG	CAGGAAGACG	AAGGCTACTA	TGTGTGTTCC	1260
64	GCTTTCAGTG	TAGTCGATTTC	CTCTACAGTA	CGGGTTTTTCC	TGCAAGTCAG	CTCGGTAGAC	1320
65	GAGCGTCCAC	CTCCGATTAT	TCAAATCGGA	CCTGCCAATC	AAACACTGCC	CAAGGGATCA	1380
66	GTTGTACTTT	TACCTGTGCG	GGCCACTGGA	AATCCCAGTC	CCCGTATCAA	GTGGTTCCAC	1440
67	GATGGACATG	CCGTACAAGC	GGGCAATCGA	TACAGCATCA	TCCAAGGAAG	CTCACTGAGA	1500
68	GTCGATGACC	TTCAACTAAG	TGACTCTGGT	ACCTACACCT	GCACTGCATC	TGGCGAACGA	1560
69	GGAGAAACTT	CCTGGGCTGC	CACACTAACG	GTGGAAAAAC	CCGGTTCTAC	ATCTCTTCAC	1620
70	CGGGCAGCTG	ATCCTAGCAC	TTATCCTGCT	CCTCCAGGAA	CACCTAAAGT	CCTGAATGTC	1680
71	AGTCGCACCA	GCATTAGTCT	TCGTTGGGCT	AAAAGCCAAG	AGAAACCCGG	AGCTGTGGGC	1740
72	CCAATCATTG	GATACACTGT	AGAGTACTTC	AGTCCGGATC	TGCAAACTGG	TTGGATTGTG	1800
73	GCTGCCCATC	GAGTCGGCGA	CACTCAAGTC	ACTATCTCGG	GTCTCACTCC	TGGCACTTCG	1860
74	TATGTGTTCC	TAGTTAGAGC	TGAGAAACTC	CAGGGTATTT	CTGTGCCCTC	CGGCTTATCA	1920
75	AATGTTATTA	AAACCATTTGA	GGCAGATTTT	GATGCAGCTT	CTGCCAATGA	TTTGTCAGCA	1980
76	GCTCGAACTT	TGCTGACAGG	AAAGTCGGTG	GAGCTAATAG	ATGCCCTCGG	TATCAATGCT	2040
77	AGTGCCGTTA	GACTTGAGTG	GATGCTCCAC	GTGAGCGCTG	ATGAGAAATA	CGTAGAGGGC	2100
78	CTGCGCATAC	ACTATAAGGA	TGCCAGTGTA	CCATCCGCAC	AGTATCACTC	GATCACTGTT	2160
79	ATGGATGCCCT	CTGCAGAACT	GTTTGTGGTG	GGAAACCTTA	AGAAGTACAC	CAAGTATGAG	2220
80	TTCTTCCTAA	CACCCTTTTT	TGAGACAATT	GAAGGACAGC	CCAGTAACTC	CAAGACAGCC	2280
81	CTCACCTATG	AAGATGTTCC	CTCCGCACCA	CCGGATAACA	TTCAAGATTG	CATGTACAAC	2340
82	CAACAGCCG	GTTGGGTGCG	TTGGACTCCG	CCACCCTCCC	AGCACCACAA	TGGCAATTTG	2400
83	TATGGCTACA	AGATTGAGGT	CAGCGCCGGT	AACACCATGA	AGGTGCTGGC	CAATATGACT	2460
84	CTTAATGCTA	CCACCACATC	TGTGCTCCTA	AATAACCTAA	CCACCGGAGC	TGTGTACAGC	2520
85	GTGAGGTTGA	ACTCCTTTAC	CAAGGCAGGA	GATGGACCTT	ACTCCAAACC	GATATCACTA	2580
86	TTCATGGACC	CCACCCATCA	TGTGCATCCG	CCACGGGCAC	ATCCAAGCGG	CACCCATGAT	2640
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89	CTGGTCTGCA	TCGTTCTTCT	AGTCCTGGTT	ATTTTCGGCG	CTATTTTCGAT	GGTCTACTTC	2820
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91	ATAACCGCAT	TAAATATCAA	TAGCAAAGAG	AGCCTTTGGA	TAGACCATCA	TCGTGGATGG	2940
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93	AACAGCAGTC	AATCCAACCTA	CAATAACTCC	GATGGAGGAA	CCGATTATGC	AGAAGTTGAC	3060
94	ACCCGTAACC	TTACCACCTT	CTACAATTGT	CGCAAGAGCC	CCGATAATCC	CACGCCGTAC	3120
95	GCCACCACTA	TGATCATTTG	TACCTCTTCC	AGTGAGACCT	GCACCAAGAC	AACATCTATA	3180
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98	TCAGAGTTTC	TACCCCGGCC	GCCAGAACAC	CCACCTCCGT	CTTCTACCTA	TGGATACGCA	3360
99	CAAGGATCTC	CTGAATCTTC	GCGGAAGAGC	TCCAAAAGCG	CAGGTTCCGG	CATTTCTACA	3420

# RAW SEQUENCE LISTING PATENT APPLICATION US/08/971,172

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102 TCGGCAGTGG CTGGCGGCAC CCAGAACCGC TATCAGATAA CGCCCACAAA CCAACATCCG 3600
103 CCACAGTTAC CGGCCTACTT TGCCACCACG GGTCCAGGAG GAGCTGTACC ACCCAACCAC 3660
104 CTGCCATTTG CCACACAGCG TCATGCAGCC AGCGAGTACC AGGCTGGACT GAATGCAGCG 3720
105 CGATGTGCCC AAAGCCGCGC CTGCAACAGC TGCATGCCTT TGGCCACACC CTCGCCCATG 3780
106 CAACCCCCAC CGCCAGTTCC CGTACCCGAG GGCTGGTACC AACCAGTGCA TCCCAATAGC 3840
107 CACCCGATGC ACCCGACCTC CTCCAACCAC CAGATCTACC AGTGCTCCTC CGAGTGCCTG 3900
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111 TGCAATAGCT CCCGCGAGGG CGACACCTGC TCCTGCAGCG AGGGATCCTG TCTTTACGCC 4140
112 GAGGCGGGCG AGCCGGCGCC TCGTCAAATG ACTGCTAAGA ACACCTAA 4188

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113

114 (2) INFORMATION FOR SEQ ID NO:2:

115 (i) SEQUENCE CHARACTERISTICS:

116 (A) LENGTH: 1395 amino acids

117 (B) TYPE: amino acid

118 (C) STRANDEDNESS: single

119 (D) TOPOLOGY: linear

120 (ii) MOLECULE TYPE: peptide

121 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

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122 Met His Pro Met His Pro Glu Asn His Ala Ile Ala Arg Ser Thr Ser
123 1 5 10 15
124 Thr Thr Asn Asn Pro Ser Arg Ser Arg Ser Ser Arg Met Trp Leu Leu
125 20 25 30
126 Pro Ala Trp Leu Leu Leu Val Leu Val Ala Ser Asn Gly Leu Pro Ala
127 35 40 45
128 Val Arg Gly Gln Tyr Gln Ser Pro Arg Ile Ile Glu His Pro Thr Asp
129 50 55 60
130 Leu Val Val Lys Lys Asn Glu Pro Ala Thr Leu Asn Cys Lys Val Glu
131 65 70 75 80
132 Gly Lys Pro Glu Pro Thr Ile Glu Trp Phe Lys Asp Gly Glu Pro Val
133 85 90 95
134 Ser Thr Asn Glu Lys Lys Ser His Arg Val Gln Phe Lys Asp Gly Ala
135 100 105 110
136 Leu Phe Phe Tyr Arg Thr Met Gln Gly Lys Lys Glu Gln Asp Gly Gly
137 115 120 125
138 Glu Tyr Trp Cys Val Ala Lys Asn Arg Val Gly Gln Ala Val Ser Arg
139 130 135 140
140 His Ala Ser Leu Gln Ile Ala Val Leu Arg Asp Asp Phe Arg Val Glu
141 145 150 155 160
142 Pro Lys Asp Thr Arg Val Ala Lys Gly Glu Thr Ala Leu Leu Glu Cys
143 165 170 175
144 Gly Pro Pro Lys Gly Ile Pro Glu Pro Thr Leu Ile Trp Ile Lys Asp
145 180 185 190
146 Gly Val Pro Leu Asp Asp Leu Lys Ala Met Ser Phe Gly Ala Ser Ser
147 195 200 205
148 Arg Val Arg Ile Val Asp Gly Gly Asn Leu Leu Ile Ser Asn Val Glu
149 210 215 220
150 Pro Ile Asp Glu Gly Asn Tyr Lys Cys Ile Ala Gln Asn Leu Val Gly
151 225 230 235 240
152 Thr Arg Glu Ser Ser Tyr Ala Lys Leu Ile Val Gln Val Lys Pro Tyr

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156	Thr	Phe	His	Cys	Ser	Val	Gly	Gly	Asp	Pro	Pro	Pro	Lys	Val	Leu	Trp
157			275					280					285			
158	Lys	Lys	Glu	Glu	Gly	Asn	Ile	Pro	Val	Ser	Arg	Ala	Arg	Ile	Leu	His
159		290					295				300					
160	Asp	Glu	Lys	Ser	Leu	Glu	Ile	Ser	Asn	Ile	Thr	Pro	Thr	Asp	Glu	Gly
161	305					310					315				320	
162	Thr	Tyr	Val	Cys	Glu	Ala	His	Asn	Asn	Val	Gly	Gln	Ile	Ser	Ala	Arg
163				325						330					335	
164	Ala	Ser	Leu	Ile	Val	His	Ala	Pro	Pro	Asn	Phe	Thr	Lys	Arg	Pro	Ser
165			340						345				350			
166	Asn	Lys	Lys	Val	Gly	Leu	Asn	Gly	Val	Val	Gln	Leu	Pro	Cys	Met	Ala
167		355						360					365			
168	Ser	Gly	Asn	Pro	Pro	Pro	Ser	Val	Phe	Trp	Thr	Lys	Glu	Gly	Val	Ser
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170	Thr	Leu	Met	Phe	Pro	Asn	Ser	Ser	His	Gly	Arg	Gln	Tyr	Val	Ala	Ala
171	385					390					395				400	
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173				405						410					415	
174	Tyr	Val	Cys	Ser	Ala	Phe	Ser	Val	Val	Asp	Ser	Ser	Thr	Val	Arg	Val
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178	Ile	Gly	Pro	Ala	Asn	Gln	Thr	Leu	Pro	Lys	Gly	Ser	Val	Ala	Thr	Leu
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180	Pro	Cys	Arg	Ala	Thr	Gly	Asn	Pro	Ser	Pro	Arg	Ile	Lys	Trp	Phe	His
181	465					470					475				480	
182	Asp	Gly	His	Ala	Val	Gln	Ala	Gly	Asn	Arg	Tyr	Ser	Ile	Ile	Gln	Gly
183				485						490					495	
184	Ser	Ser	Leu	Arg	Val	Asp	Asp	Leu	Gln	Leu	Ser	Asp	Ser	Gly	Thr	Tyr
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188	Leu	Thr	Val	Glu	Lys	Pro	Gly	Ser	Thr	Ser	Leu	His	Arg	Ala	Ala	Asp
189		530					535					540				
190	Pro	Ser	Thr	Tyr	Pro	Ala	Pro	Pro	Gly	Thr	Pro	Lys	Val	Leu	Asn	Val
191	545					550					555				560	
192	Ser	Arg	Thr	Ser	Ile	Ser	Leu	Arg	Trp	Ala	Lys	Ser	Gln	Glu	Lys	Pro
193				565						570					575	
194	Gly	Ala	Val	Gly	Pro	Ile	Ile	Gly	Tyr	Thr	Val	Glu	Tyr	Phe	Ser	Pro
195			580					585					590			
196	Asp	Leu	Gln	Thr	Gly	Trp	Ile	Val	Ala	Ala	His	Arg	Val	Gly	Asp	Thr
197		595						600					605			
198	Gln	Val	Thr	Ile	Ser	Gly	Leu	Thr	Pro	Gly	Thr	Ser	Tyr	Val	Phe	Leu
199		610					615					620				
200	Val	Arg	Ala	Glu	Asn	Thr	Gln	Gly	Ile	Ser	Val	Pro	Ser	Gly	Leu	Ser
201	625					630					635				640	
202	Asn	Val	Ile	Lys	Thr	Ile	Glu	Ala	Asp	Phe	Asp	Ala	Ala	Ser	Ala	Asn
203				645						650					655	
204	Asp	Leu	Ser	Ala	Ala	Arg	Thr	Leu	Leu	Thr	Gly	Lys	Ser	Val	Glu	Leu
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208	Leu	His	Val	Ser	Ala	Asp	Glu	Lys	Tyr	Val	Glu	Gly	Leu	Arg	Ile	His
209		690					695					700				
210	Tyr	Lys	Asp	Ala	Ser	Val	Pro	Ser	Ala	Gln	Tyr	His	Ser	Ile	Thr	Val
211		705				710					715					720
212	Met	Asp	Ala	Ser	Ala	Glu	Ser	Phe	Val	Val	Gly	Asn	Leu	Lys	Lys	Tyr
213					725					730					735	
214	Thr	Lys	Tyr	Glu	Phe	Phe	Leu	Thr	Pro	Phe	Phe	Glu	Thr	Ile	Glu	Gly
215				740					745					750		
216	Gln	Pro	Ser	Asn	Ser	Lys	Thr	Ala	Leu	Thr	Tyr	Glu	Asp	Val	Pro	Ser
217			755					760					765			
218	Ala	Pro	Pro	Asp	Asn	Ile	Gln	Ile	Gly	Met	Tyr	Asn	Gln	Thr	Ala	Gly
219		770					775					780				
220	Trp	Val	Arg	Trp	Thr	Pro	Pro	Pro	Ser	Gln	His	His	Asn	Gly	Asn	Leu
221		785				790					795					800
222	Tyr	Gly	Tyr	Lys	Ile	Glu	Val	Ser	Ala	Gly	Asn	Thr	Met	Lys	Val	Leu
223					805					810					815	
224	Ala	Asn	Met	Thr	Leu	Asn	Ala	Thr	Thr	Thr	Ser	Val	Leu	Leu	Asn	Asn
225				820					825					830		
226	Leu	Thr	Thr	Gly	Ala	Val	Tyr	Ser	Val	Arg	Leu	Asn	Ser	Phe	Thr	Lys
227			835					840					845			
228	Ala	Gly	Asp	Gly	Pro	Tyr	Ser	Lys	Pro	Ile	Ser	Leu	Phe	Met	Asp	Pro
229		850					855					860				
230	Thr	His	His	Val	His	Pro	Pro	Arg	Ala	His	Pro	Ser	Gly	Thr	His	Asp
231		865				870				875						880
232	Gly	Arg	His	Glu	Gly	Gln	Asp	Leu	Thr	Tyr	His	Asn	Asn	Gly	Asn	Ile
233					885					890					895	
234	Pro	Pro	Gly	Asp	Ile	Asn	Pro	Thr	Thr	His	Lys	Lys	Thr	Thr	Asp	Tyr
235			900						905					910		
236	Leu	Ser	Gly	Pro	Trp	Leu	Met	Val	Leu	Val	Cys	Ile	Val	Leu	Leu	Val
237			915					920					925			
238	Leu	Val	Ile	Ser	Ala	Ala	Ile	Ser	Met	Val	Tyr	Phe	Lys	Arg	Lys	His
239		930					935					940				
240	Gln	Met	Thr	Lys	Glu	Leu	Gly	His	Leu	Ser	Val	Val	Ser	Asp	Asn	Glu
241		945				950					955					960
242	Ile	Thr	Ala	Leu	Asn	Ile	Asn	Ser	Lys	Glu	Ser	Leu	Trp	Ile	Asp	His
243					965					970					975	
244	His	Arg	Gly	Trp	Arg	Thr	Ala	Asp	Thr	Asp	Lys	Asp	Ser	Gly	Leu	Ser
245			980					985					990			
246	Glu	Ser	Lys	Leu	Leu	Ser	His	Val	Asn	Ser	Ser	Gln	Ser	Asn	Tyr	Asn
247			995					1000					1005			
248	Asn	Ser	Asp	Gly	Gly	Thr	Asp	Tyr	Ala	Glu	Val	Asp	Thr	Arg	Asn	Leu
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251		1025				1030					1035					1040
252	Ala	Thr	Thr	Met	Ile	Ile	Gly	Thr	Ser	Ser	Ser	Glu	Thr	Cys	Thr	Lys
253					1045					1050					1055	
254	Thr	Thr	Ser	Ile	Ser	Ala	Asp	Lys	Asp	Ser	Gly	Thr	His	Ser	Pro	Tyr
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256	Ser	Asp	Ala	Phe	Ala	Gly	Gln	Val	Pro	Ala	Val	Pro	Val	Val	Lys	Ser
257			1075					1080					1085			
258	Asn	Tyr	Leu	Gln	Tyr	Pro	Val	Glu	Pro	Ile	Asn	Trp	Ser	Glu	Phe	Leu

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**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/08/971,172**

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Original Text